

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/038,585	01/08/2002	Olfa Chetay	Q67992	1441
7590 04/06/2005		EXAMINER		
SUGHRUE MION, PLLC 2100 Pennsylvania Avenue, NW Washington, DC 20037-3213			LAU, TUNG S	
			ART UNIT	PAPER NUMBER
			2863	
			DATE MAILED: 04/06/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	0
	Yo

	Application No.	Applicant(s)				
Office Action Comments	10/038,585	CHETAY ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tung S. Lau	2863				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
1) Responsive to communication(s) filed on 24 Ma	arch 2005.					
	· _ · · · · · · · · · · · · · · · · · ·					
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-14 is/are pending in the application.	•					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.	•					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ acce	epted or b) \square objected to by the E	Examiner.				
Applicant may not request that any objection to the o	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	, -	(DTO 440)				
1)	4) Interview Summary Paper No(s)/Mail Da					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

Application/Control Number: 10/038,585

Art Unit: 2863

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Drzewiecki (U.S. Patent 6,305,212).

Regarding claim 1:

Drzewiecki discloses a method of monitoring the proportion of a component in a gaseous mixture having at least two components (abstract) and contained in an electrical switchgear enclosure (fig. 5a, unit 25, 16), said method consisting in measuring the pressure, the temperature, and the density of the gas mixture using at least one sensor (abstract, fig. 11a, unit 125, 126, 127) and determining said proportion by processing the measured values in a data-processing unit, so as to enable the mixture to be monitored non-intrusively (fig. 5a, unit 25, 16, fig. 3).

Regarding claim 12:

Art Unit: 2863

Drzewiecki discloses a system for monitoring a proportion of a component in a gaseous mixture having at least two components and contained in an electrical switchgear enclosure, including at least one sensor mounted on said enclosure for measuring the pressure (abstract, fig. 5a, unit 25, 16), the temperature (fig. 9b, unit 81), and the density of the gas mixture (fig. 9b, unit 86); and a data processing unit for processing the measured values (fig. 5a, unit 13, abstract), so as to enable the mixture to be monitored non-intrusively (abstract, fig. 5a, unit 25, 16).

Regarding claim 13:

Drzewiecki discloses a system for monitoring a proportion of a component in a gaseous mixture having at least two components and contained in an electrical switchgear enclosure, comprising first means mounted on said enclosure for measuring the pressure (abstract, fig. 5a, unit 25, 16), the temperature (fig. 9b, unit 81), and the density of the gas mixture (fig. 9b, unit 86); and second means for processing the measured values (fig. 5a, unit 23), so as to enable the mixture to be monitored non-intrusively (abstract, fig. 5a, unit 25, 16).

Regarding claims 2, 3, 7, 8, 9, 4, 5, 6, 10, 11, 14:

Drzewiecki also disclose a method in which said proportion of a component in the mixture is calculated by the data-processing unit which is programmed to solve the thermodynamic state equations of said components (fig. 9b, unit 81-88); A method in which said proportion of a component in the mixture is determined by

Art Unit: 2863

the data-processing unit which stores a data table in a memory (fig. 5a, unit 13, Col. 5, table 1, Col. 31, table 2), said data table containing a plurality of data items representative of various proportions of said component in correspondence with data items representative of various measurements of the pressure, of the temperature, and of the density of the gas mixture containing said component (Col. 5, table 1, Col. 31, table 2), the data process is a computer (fig. 5a, unit 13). Electrical switchgear provided with an enclosure containing a mixture of at least two dielectric gases under pressure, wherein the proportions of the dielectric gases in the mixture are determined by implementing method (fig. 3, 4, 8); wherein the density is measure by means of a vibrating-blade sensor (fig. 6. capillary, orifice pressure drop); wherein the density is measure by means of capacitor whose capacitance is a function of the permittivity of the gas mixture (Col. 29, Lines 34-50, fig. 8, 7a, 7b,7c); wherein the density is measure by means of an interferometer (Col. 2-4, Lines 38-4); gas component of N2 (fig. 7c) and SF6 or Cf6 (Col. 1, Lines 20-27); running algorithms in the data-processing unit for correcting errors and drift specific to said least one sensor (Col. 12-13, Lines 37-18), acts as an insulation gas (fig. 7b, 7c).

Response to Arguments

- 2. Applicant's arguments filed 3/24/2005 have been fully considered but they are not persuasive.
 - A. Applicant argues in the arguments that the prior art does not show the 'an electrical switchgear and at least one sensor for measuring the pressure,

Art Unit: 2863

temperature and density of the gas mixture'. Drzewiecki discloses 'an electrical switchgear in fig. 1, unit 44 and at least one sensor for measuring the pressure, temperature and density of the gas mixture' in abstract, fig. 11a, unit 125, 126, 127.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tung S Lau whose telephone number is 571-272-2274. The examiner can normally be reached on M-F 9-5:30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 571-272-2269. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9306

Application/Control Number: 10/038,585

Art Unit: 2863

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 6

TL

BRYAN BUI PRIMARY EXAMINER Bull 3-31-05